

Title (en)

CRANKSHAFT DEFORMATION BALANCE METHOD AND DEVICE, AND CRANKSHAFT AND SCROLL COMPRESSOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUSWUCHTEN EINER KURBELWELLENVERFORMUNG SOWIE KURBELWELLE UND SPIRALVERDICHTER

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ÉQUILIBRAGE DE DÉFORMATION DE VILEBREQUIN, VILEBREQUIN ET COMPRESSEUR À SPIRALE

Publication

**EP 3926170 A4 20220608 (EN)**

Application

**EP 19926355 A 20191226**

Priority

- CN 201910334854 A 20190424
- CN 2019128874 W 20191226

Abstract (en)

[origin: EP3926170A1] Disclosed are a method and a device for balancing crankshaft deformation e, a crankshaft with counterweights determined according to the method, and a scroll compressor using the crankshaft. The method includes: determining a component centrifugal force required by a counterweight to overcome the crankshaft (9) deformation caused by both an orbiting scroll (6) centrifugal force and a gas force; and determining the counterweight according to the component centrifugal force. The counterweight is arranged on the crankshaft (9). The method solves a technical problem that, in the related technology, only the influence of the orbiting scroll centrifugal force on the crankshaft is considered and a balance effect is poor.

IPC 8 full level

**F04C 18/02** (2006.01); **F04C 29/00** (2006.01)

CPC (source: CN EP US)

**F04C 18/0215** (2013.01 - CN EP US); **F04C 29/00** (2013.01 - CN); **F04C 29/0021** (2013.01 - CN EP); **F04C 29/0042** (2013.01 - CN); **F04C 23/008** (2013.01 - EP US); **F04C 29/0021** (2013.01 - US); **F04C 29/0057** (2013.01 - US); **F04C 2230/605** (2013.01 - EP US); **F04C 2240/807** (2013.01 - EP US)

Citation (search report)

No further relevant documents disclosed

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Designated extension state (EPC)

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